MILAN KACAR

Software & Survey Engineer

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EDUCATION

GYMNASIUM

📅 2010 - 2014 📍 Mrkonjic Grad, Bosnia and Herzegovina

BSc Geomatics Engineering
University of Technology, TU Graz

📅 2015 - 2019 📍 Graz, Austria

Master's Degree Programme - Geodesy
University of Technology, TU Graz

📅 2019-Present 📍 Graz, Austria

Master's Degree Programme - Computer Science
University of Technology, TU Graz

📅 2020-Present 📍 Graz, Austria

UNIVERSITY & PERSONAL PROJECTS

- STOCK PRICES PREDICTOR - Project uses AI (Artificial intelligence) and ML (Machine learning) as a hybrid approach to detect prices fluctuation for stocks considering different indexes (SP 500, Dow Jones, DAX etc.)
- LOTTO NUMBERS PREDICTOR - It was a try to predict lotto numbers for the next draw.
- SCIENTIFIC PAPER MINER - This project is GOOGLE for scientific papers.
- POLLEN TREE DETECTOR (FROM SATELLITE IMAGES) - This project presents an automated tree detecting and identification method based on image processing of satellite imagery.
- DIFFERENT SIGNAL PROCESSING PROJECTS - Mostly projects on GNSS signals.
- GRAVITY ANOMALY MAPS - GRACE misson.
- KALMAN FILTER · ADEVANCED KALMAN FILTER · PARTICLE FILTER - as a part of indoor navigation.
- DIFFERENT ARDUINO PROJECTS - Mostly projects from youtube tutorials and combination of different projects.

DISSERTATION WORK

BSc Thesis
Database for cycling routes

- Entity Relationship Diagram.
- Building the Database.
- Conversion from analog to digital maps.

MSc Thesis
PV (Photovoltaic) panels detection from satellite images

- Project uses AI (Artificial intelligence) and ML (Machine learning) as a hybrid approach to detect panels.
- Building an independent model to work on different datasets.
- CapsNets for object detection.
- YOLOv5

LOOKING FOR

" To work in a progressive and dynamic organization where one could solve scientific enigmas and contribute towards welfare of society "

TECHNICAL STRENGTH

Skill	Level
Python	●●●●●
C/C++	●●●●●
GIS	●●●●●
PostgreSQL	●●●●●
Navigation	●●●●●
MATLAB	●●●●●
GNSS	●●●●●
Signal Processing	●●●●●
Java	●●●●●
Data Structures & Algorithms	●●●●○
MySQL	●●●●○
Docker	●●●●○
Kubernetes	●●●●○
PHP	●●●●○
Linux	●●●●○
R	●●●●○
Apache Spark	●●●●○
Skala	●●●○○

WORK EXPERIENCE

Teaching Assistant
TU Graz

📅 March 2021 - Present   📍 Graz, Austria

- Integrated navigation
- Sensor fusion
- Indoor navigation

Software Engineer
TU Graz

📅 Sep 2019 - Present   📍 Graz, Austria

- Automation
- Statistics
- Geoinformatics
- Automotive industry

Survey Engineer
GEODATA

📅 July 2019 - December 2020   📍 Semmering Basistunnel, Austria

- Tunnel surveying
- 3D Laser scanner measurements

HOBBIES

Reading
I am trying to read a book per week.

Sports Addict
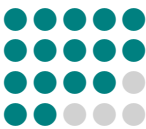At a young age I enjoyed playing tennis, but my interests migrated towards Fitness and healthy food.

Travelling
After living in a rustic, small town for the past 18 years, I was craving change and adventure. Six years later, I've traveled to more places during college than the first two decades of my life.

LANGUAGES

Serbian | Croatian | Bosnian ●●●●●
German ●●●●○
English ●●●●○
Russian ●●○○○

STRENGTHS